

10. Michaela

Program Name: Michaela.java

Input File: michaela.dat

Michaela and her friends have created a new way to communicate with each other that utilizes a series of dots (.) and dashes (-) to make sentences or phrases. They've done this so that they can communicate with each other without their nosy teacher, Miss Dolores Umbridge, from eavesdropping on their conversations. They've utilized the ASCII values of the capital letters 'A'-'Z' as well as the ASCII value for the ' ' (space) to create the representations as seen below. Now that their language is created, they need your help in writing a program that can translate an English phrase or sentence into their new language. Can you help them write such a program?

Character	ASCII Value	Representation
(space)	32	-.....
A	65	-.....-
B	66	-.....-
C	67	-.....--
D	68	-.....--
E	69	-.....--
F	70	-.....--
G	71	-.....--
H	72	-.....--
I	73	-.....--
J	74	-.....--
K	75	-.....--
L	76	-.....--
M	77	-.....--

Character	ASCII Value	Representation
N	78	-.....-
O	79	-.....--
P	80	-.....--
Q	81	-.....--
R	82	-.....--
S	83	-.....--
T	84	-.....--
U	85	-.....--
V	86	-.....--
W	87	-.....--
X	88	-.....--
Y	89	-.....--
Z	90	-.....--

Input: Input will begin with an integer M, the number of messages to convert. M will be in range of [1,20]. The following M lines will contain a single message made up of one or more words. Valid messages will be made up of both upper and lower case letters and spaces only. NOTE: even though input can be lower case, all the output will match that of the table above, i.e. upper case letters only.

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Output: For each message you are to output: “Message #: series_of_dots_or_dashes series_of_dots_or_dashes ...”. There should be a space between each series_of_dots_or_dashes to denote the beginning and end of a letter. Each message is to be output on its own, individual line.

Sample input:

```
6
Hello World
MORSE CODE
UiL cOmPuTeR sCiEnCe
catch the hp reference
SHE WILL NEVER FIGURE THIS OUT
the quick brown fox jumps over the lazy dog
```

Sample output:

[illegible]